Alison R H Narayan

List of Publications by Year
in descending order

40	1,744	304743 22	289244 40
papers	citations	h-index	g-index

51	51	51	1803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure of a modular polyketide synthase. Nature, 2014, 510, 512-517.	27.8	269
2	Structural rearrangements of a polyketide synthase module during its catalytic cycle. Nature, 2014, 510, 560-564.	27.8	168
3	Scalable biocatalytic Câ€“H oxyfunctionalization reactions. Chemical Society Reviews, 2020, 49, 8137-8155.	38.1	105
4	Biocatalytic site- and enantioselective oxidative dearomatization of phenols. Nature Chemistry, 2018, 10, 119-125.	13.6	104
5	Enzymatic hydroxylation of an unactivated methylene Câ€“H bond guided by molecular dynamics simulations. Nature Chemistry, 2015, 7, 653-660.	13.6	100
6	Directing Group-Controlled Regioselectivity in an Enzymatic Câ€“H Bond Oxygenation. Journal of the American Chemical Society, 2014, 136, 4901-4904.	13.7	75
7	Broadening the scope of biocatalytic Câ€“C bond formation. Nature Reviews Chemistry, 2020, 4, 334-346.	30.2	71
8	Biocatalytic oxidative cross-coupling reactions for biaryl bond formation. Nature, 2022, 603, 79-85.	27.8	67
9	State-of-the-Art Biocatalysis. ACS Central Science, 2021, 7, 1105-1116.	11.3	59
10	Chemistry of a Unique Polyketide-like Synthase. Journal of the American Chemical Society, 2018, 140, 2430-2433.	13.7	55
11	Proticâ€Solventâ€Mediated Cycloisomerization of Quinoline and Isoquinoline Propargylic Alcohols: Syntheses of (Â±)â€3â€Demethoxyerythratidinone and (Â±)â€Cocculidine. Angewandte Chemie - International Edition, 2013, 52, 11129-11133.	13.8	54
12	Câ€“H Hydroxylation in Paralytic Shellfish Toxin Biosynthesis. Journal of the American Chemical Society, 2018, 140, 11863-11869.	13.7	51
13	Biocatalytic Synthesis of Pikromycin, Methymycin, Neomethymycin, Novamethymycin, and Ketomethymycin. Journal of the American Chemical Society, 2013, 135, 11232-11238.	13.7	50
14	Chemoenzymatic Total Synthesis of Natural Products. Accounts of Chemical Research, 2021, 54, 1374-1384.	15.6	48
15	Biocatalytic Detoxification of Paralytic Shellfish Toxins. ACS Chemical Biology, 2019, 14, 941-948.	3.4	39
16	Chemoenzymatic o-Quinone Methide Formation. Journal of the American Chemical Society, 2019, 141, 20269-20277.	13.7	38
17	Stereodivergent, Chemoenzymatic Synthesis of Azaphilone Natural Products. Journal of the American Chemical Society, 2019, 141, 18551-18559.	13.7	37
18	Structural basis for divergent Câ€“H hydroxylation selectivity in two Rieske oxygenases. Nature Communications, 2020, 11, 2991.	12.8	34

#	Article	IF	Citations
19	Flavin-dependent biocatalysts in synthesis. Tetrahedron, 2019, 75, 1115-1121.	1.9	31
20	Biocatalytic, Stereoselective Deuteration of Î±-Amino Acids and Methyl Esters. ACS Catalysis, 2020, 10, 7413-7418.	11.2	29
21	Structural Basis for Selectivity in Flavin-Dependent Monooxygenase-Catalyzed Oxidative Dearomatization. ACS Catalysis, 2019, 9, 3633-3640.	11.2	28
22	The Transformative Power of Biocatalysis in Convergent Synthesis. Journal of the American Chemical Society, 2022, 144, 5214-5225.	13.7	23
23	Synthesis of Diverse 11- and 12-Membered Macrolactones from a Common Linear Substrate Using a Single Biocatalyst. ACS Central Science, 2017, 3, 1304-1310.	11.3	21
24	Biocatalytic Synthesis of Î±-Amino Ketones. Synlett, 2019, 30, 1269-1274.	1.8	18
25	Charting a course for chemistry. Nature Chemistry, 2019, 11, 286-294.	13.6	18
26	Re-Engineering Nature's Catalysts. Science, 2013, 339, 283-284.	12.6	16
27	Substrate Promiscuity of a Paralytic Shellfish Toxin Amidinotransferase. ACS Chemical Biology, 2020, 15, 626-631.	3.4	16
28	Design principles for site-selective hydroxylation by a Rieske oxygenase. Nature Communications, 2022, 13, 255.	12.8	15
29	Frontiers in Biocatalysis: Profiling Function across Sequence Space. ACS Central Science, 2019, 5, 1747-1749.	11.3	14
30	Positioning-Group-Enabled Biocatalytic Oxidative Dearomatization. ACS Central Science, 2019, 5, 1010-1016.	11.3	14
31	The voltage-gated sodium channel inhibitor, 4,9-anhydrotetrodotoxin, blocks human Nav1.1 in addition to Nav1.6. Neuroscience Letters, 2020, 724, 134853.	2.1	14
32	Hydroxyl Radical-Coupled Electron-Transfer Mechanism of Flavin-Dependent Hydroxylases. Journal of Physical Chemistry B, 2019, 123, 8065-8073.	2.6	12
33	Wholeâ€cell biocatalysis platform for gramâ€scale oxidative dearomatization of phenols. Chemical Biology and Drug Design, 2019, 93, 1207-1213.	3.2	11
34	Synthetic Utility of One-Pot Chemoenzymatic Reaction Sequences. Synlett, 2020, 31, 230-236.	1.8	11
35	Natural Voltageâ€Gated Sodium Channel Ligands: Biosynthesis and Biology. ChemBioChem, 2019, 20, 1231-1241.	2.6	8
36	Photocatalytic Oxidative Dearomatization of Orcinaldehyde Derivatives. Organic Letters, 2020, 22, 3712-3716.	4.6	8

#	Article	IF	Citations
37	Enzymes trapped and zapped for use outside cells. Nature, 2019, 567, 317-318.	27.8	2
38	Radial Scope: A New Visualization Tool for Structureâ€“Data Relationships. Trends in Chemistry, 2020, 2, 587-589.	8.5	2
39	Structural Basis for Control of Methylation Extent in Polyketide Synthase Metal-Dependent C-Methyltransferases. ACS Chemical Biology, 2022, 17, 2088-2098.	3.4	2
40	Oxidative Dearomatization by Flavin-Dependent Monooxygenase. Trends in Chemistry, 2020, 2, 270-271.	8.5	1